

**WHAT IS CLAIMED IS:**

1. A method for processing currency bills and coins in a cash processing system that includes a currency bill processing device and a coin processing device, said cash  
5 processing system including a resident memory, comprising:
  - providing a cash receptacle containing a plurality of currency bills and a plurality of coins;
  - providing a target amount of cash to be stored in said cash receptacle, said cash being stored after a removing step is performed;
  - 10 determining a coin total corresponding to the value of said plurality of coins in said cash receptacle by using said coin processing device;
  - determining a bill total corresponding to the value of said plurality of bills in said cash receptacle by using said currency bill processing device;
  - 15 determining a bill removal amount;
  - removing said bill removal amount worth of currency bills from said plurality of currency bills provided in said cash receptacle; and
  - storing remaining currency bills and coins in said cash receptacle, the total amount of remaining currency bills and coins corresponding to  
20 said target amount of cash.
2. The method of claim 1, further comprising:
  - rounding-down said coin total;
  - determining a coin removal amount corresponding to the difference  
25 between said coin total and the rounded-down coin total; and
  - removing a coin removal amount worth of coins from said cash receptacle.
3. The method of claim 2, wherein rounding-down comprises rounding-down to the  
30 nearest whole dollar amount.

4. The method of claim 2, wherein rounding-down comprises rounding-down to the nearest whole five dollar amount.
5. The method of claim 2, wherein determining said bill removal amount comprises:  
5 determining a bill batch amount by subtracting said coin total from said target amount; and  
subtracting said bill batch amount from said bill total.
6. The method of claim 1, further comprising displaying said bill removal amount to  
10 an operator.
7. The method of claim 2, further comprising displaying said coin removal amount to an operator.
- 15 8. The method of claim 2, further comprising instructing an operator how many coins from each denomination are included in said coin removal amount.
9. The method of claim 1, further comprising instructing an operator how many bills from each denomination are included in said bill removal amount.
- 20 10. The method of claim 1, further comprising:  
selecting more than one currency media; and  
determining said bill removal amount for each selected currency media.
- 25 11. The method of claim 1, further comprising restricting operator access such that only predetermined operators are able to provide said target amount of cash.
12. The method of claim 1, further comprising printing a receipt showing at least one of said target amount, said coin total, said bill total, and said bill removal amount.
- 30 13. The method of claim 1, further comprising:

providing a plurality of coins of a single denomination; and  
counting said plurality of coins of a single denomination until reaching  
said target amount of cash.

5    14.    The method of claim 1, further comprising:

providing a plurality of currency bills of a single denomination; and  
counting said plurality of currency bills of a single denomination until  
reaching said target amount of cash.

10   15.    A method for processing currency bills and coins in a system including a  
currency bill processing device and a coin processing device, at least one of said bill  
device and said coin device including a resident memory, comprising:

providing a cash receptacle having a plurality of currency bills and coins;  
determining a currency bill total using said currency bill processing  
15                    device, and determining a coin total using said coin processing  
device;

providing a round-off amount and a total amount, said total amount being  
a cash amount desired for availability in said cash receptacle after  
an adjusting step;

20                    determining a coin batch by using said round-off amount to approximate  
said coin total to a predetermined dollar amount;

subtracting said coin batch from said total amount to obtain a bill batch;  
determining a coin difference amount by subtracting said coin batch from  
said coin total;

25                    determining a bill difference amount by subtracting said bill batch from  
said currency bill total; and

adjusting said cash receptacle in accordance with said coin difference  
amount and said bill difference amount, an operator removing an  
amount of coins equal to said coin difference amount if said coin  
30                    difference amount is a positive number, said operator removing an  
amount of currency bills equal to said bill difference amount if

5                   said bill difference amount is a positive number, said operator adding an amount of coins equal to said coin difference amount if said coin difference is a negative number, and said operator adding an amount of currency bills equal to said bill difference amount if said bill difference amount is a negative number.

16.     A system for processing currency bills and coins in a cash receptacle for automatically determining a currency batch, comprising:
- 10             a coin device for counting coins in the cash receptacle and determining a coin total;
  - a bill device for counting bills in the cash receptacle and determining a bill total, said bill device being communicatively linked to said coin device;
  - 15             a memory being resident on at least one of said coin device and said bill device, said memory storing an operating mode for processing currency bills and coins, said memory further storing a target amount; and
  - 20             a central processing unit for determining a bill removal amount, said bill removal amount being the difference between said target amount and a total of said coin total and said bill total, said central processing unit being communicatively linked to at least one of said coin device and said bill device.
17.     The system of claim 16, wherein said cash receptacle is at least one cash bag.
- 25     18.     The system of claim 16, wherein said cash receptacle is a cash till.
19.     The system of claim 16, wherein said cash receptacle is a register drawer.
- 30     20.     The system of claim 16, further comprising at least one printer, said printer being communicatively linked to at least one of said bill device and said coin device.

21. The system of claim 16, further comprising a manifold for transporting the processed plurality of coins from said coin device to said coin receptacle.

5 22. A method for processing currency bills and coins in a cash processing system that includes a currency bill processing device and a coin processing device, said cash processing system including a resident memory, comprising:

providing a drawer containing a plurality of currency bills and a plurality of coins;

10 providing a target amount of cash to be returned to said drawer, said cash being returned after said plurality of currency bills and said plurality of coins are processed;

determining a coin total corresponding to the value of said plurality of coins in said drawer by using said coin processing device;

15 determining a bill total corresponding to the value of said plurality of bills in said drawer by using said currency bill processing device;

determining a return-to-drawer bill amount; and

returning said return-to-drawer bill amount worth of currency bills to said drawer.

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23. The method of claim 22, further comprising:

determining a return-to-drawer coin amount; and

returning said return-to-drawer coin amount worth of coins to said drawer.